

60815-2230us.ST25
SEQUENCE LISTING

<110> THERAPTOSIS S.A.
 <120> METHOD FOR SCREENING MODULATORS OF MITOCHONDRIAL FUCTIONNING AND
 NEW MODULATORS OBTAINED
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 <140> US 10/533 642
 <141> 2005-05-03
 <150> US 60/472,725
 <151> 2003-05-23
 <150> PCT/EP03/12056
 <151> 2003-10-03
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 <151> 2002-10-02
 <160> 57
 <170> PatentIn version 3.3
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Ala Thr Leu Ser Ala Leu Leu Ala Ala Leu Arg Arg Ile Gln Arg Ala
 1 5 10 15

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Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Ala Thr Leu Ser Ala
 1 5 10 15

Leu Leu Ala Ala Leu Arg Arg Ile Gln Arg Ala
 20 25

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Arg Lys Lys Arg Arg Gln Arg Arg Arg Cys Gly Gly Leu Glu Thr Arg
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1 5 10 15

Thr Glu Thr Trp Met Ser Ser Glu Gly Ala Trp Lys Gln Ile Gln Lys
 20 25 30

Val Glu Thr Trp Ala Leu Arg His
 35 40

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Arg Lys Lys Arg Arg Gln Arg Arg Arg Cys Gly Gly Leu Ala Asn Lys
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Lys Gly Ala Trp Leu Asp Ser Thr Lys Ala Thr Arg Tyr Leu Val Lys
 20 25 30

Thr Glu Ser Trp Ile Leu Arg Asn
 35 40

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Gly Gly Cys Arg Gly Asp Met Phe Gly Cys Gly Gly Leu Leu Phe Ile
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His Phe Arg Ile Gly Ser Arg His Ser Arg Ile Gly
 20 25

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Arg Ile Glu Ile Trp Ile Leu Arg His
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Arg Ile Ala Ile Trp Ile Leu Arg His
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Ile Leu Arg His
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Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Arg Ile Ala Ile Trp
 1 5 10 15

Ile Leu Arg His
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Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Leu Leu Phe Ile
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His Phe Arg Ile Gly Cys Arg His Ser Arg Ile Gly
 20 25

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<400> 11

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Leu
 1 5 10 15

Leu Phe Ile His Phe Arg Ile Gly Cys Arg His Ser Arg Ile Gly
 20 25 30

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Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys His
 1 5 10 15

Ala Gln Arg Ile Glu Ile Trp Ile Leu Arg His
 20 25

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<400> 13

Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys His
 1 5 10 15

Ala Gln Arg Ile Glu Thr Trp Ile Leu Arg His
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Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys His
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Ala Gln Arg Val Glu Ser Trp Ile Leu Arg Asn
 20 25

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Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys Arg
 1 5 10 15

Ala Cys Arg Met Glu Thr Trp Ile Leu Arg His
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Ile Gln Lys Val Glu Thr Trp Ala Leu Arg His
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<400> 17

Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Arg Gln
 1 5 10 15

Val Glu Lys Val Glu Thr Trp Ala Leu Arg His
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Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys His
 1 5 10 15

Ala Gln Arg Ile Ala Ile Trp Ile Leu Arg His
 20 25

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Gly Gly Cys Arg Gly Asp Met Phe Gly Cys Gly Gly Arg Ile Glu Ile
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Trp Ile Leu Arg His
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<222> (3)..(10)

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Trp Ile Leu Arg His
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Ile Trp Ile Leu Arg His
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Gly Gly Cys Gly Arg Gly Asp Ser Pro Gly Cys Gly Gly Arg Ile Ala
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Ile Trp Ile Leu Arg His
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<400> 24

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Arg Ile Glu Ile
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Trp Ile Leu Arg His
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<210> 25
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<212> PRT
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<400> 25

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Arg Ile Ala Ile
 1 5 10 15

Trp Ile Leu Arg His
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<210> 26
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<400> 26

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Arg
 1 5 10 15

Ile Glu Ile Trp Ile Leu Arg His
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<220>
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<400> 27

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Arg
 1 5 10 15

Ile Ala Ile Trp Ile Leu Arg His
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<220>
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<400> 28

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Gly
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Ala Trp Lys His Ala Gln Arg Ile Glu Ile Trp Ile Leu Arg His
 20 25 30

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<400> 29

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Gly
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Ala Trp Lys His Ala Gln Arg Ile Ala Ile Trp Ile Leu Arg His
 20 25 30

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Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Leu Leu Phe Ile
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His Phe Lys Ile Gly Cys Lys His Ser Lys Ile Gly
 20 25

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<400> 31

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Leu
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Leu Phe Ile His Phe Lys Ile Gly Cys Lys His Ser Lys Ile Gly
 20 25 30

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<400> 32

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Leu Leu Phe Ile
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His Phe Arg Ile Gly Ser Arg His Ser Arg Ile Gly
 20 25

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<400> 33

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Leu
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Leu Phe Ile His Phe Arg Ile Gly Ser Arg His Ser Arg Ile Gly
 20 25 30

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<400> 34

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Leu Leu Phe Ile
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His Phe Lys Ile Gly Ser Lys His Ser Lys Ile Gly
 20 25

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<220>
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<400> 35

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Leu
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Leu Phe Ile His Phe Lys Ile Gly Ser Lys His Ser Lys Ile Gly
 20 25 30

<210> 36
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<400> 36

Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys His
 1 5 10 15

Ala Gln Arg Ile Glu Ile Trp Ile Leu Arg His
 20 25

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<400> 37

Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys His
 1 5 10 15

Ala Gln Arg Ile Glu Thr Trp Ile Leu Arg His
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<210> 38

<211> 27

<212> PRT

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<220>

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<400> 38

Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys His
 1 5 10 15

Ala Gln Arg Val Glu Ser Trp Ile Leu Arg Asn
 20 25

<210> 39

<211> 27

<212> PRT

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<220>

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<400> 39

Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys Arg
 1 5 10 15

Ala Cys Arg Met Glu Thr Trp Ile Leu Arg His
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<212> PRT

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<220>

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<400> 40

Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Lys Gln
 1 5 10 15

Ile Gln Lys Val Glu Thr Trp Ala Leu Arg His
 20 25

<210> 41

<211> 27

<212> PRT

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<400> 41

Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Gly Ala Trp Arg Gln
 1 5 10 15

Val Glu Lys Val Glu Thr Trp Ala Leu Arg His
 20 25

<210> 42

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<400> 42

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 1 5 10 15

Trp Ile Leu Arg His
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<400> 43

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Arg Ile Ala Ile
 1 5 10 15

Trp Ile Leu Arg His
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<400> 44

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Arg
 1 5 10 15

Ile Glu Ile Trp Ile Leu Arg His
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<400> 45

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Arg
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Ile Ala Ile Trp Ile Leu Arg His
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<400> 46

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Gly
 1 5 10 15

Ala Trp Lys His Ala Gln Arg Ile Glu Ile Trp Ile Leu Arg His
 20 25 30

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<400> 47

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Gly
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Ala Trp Lys His Ala Gln Arg Ile Ala Ile Trp Ile Leu Arg His
20 25 30

<210> 48
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<400> 48

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Leu Leu Phe Ile
1 5 10 15

His Phe Lys Ile Gly Cys Lys His Ser Lys Ile Gly
20 25

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<400> 49

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Leu
1 5 10 15

Leu Phe Ile His Phe Lys Ile Gly Cys Lys His Ser Lys Ile Gly
20 25 30

<210> 50
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<400> 50

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Leu Leu Phe Ile
1 5 10 15

His Phe Arg Ile Gly Ser Arg His Ser Arg Ile Gly
20 25

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<400> 51

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Leu
 1 5 10 15

Leu Phe Ile His Phe Arg Ile Gly Ser Arg His Ser Arg Ile Gly
 20 25 30

<210> 52
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<400> 52

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Leu Leu Phe Ile
 1 5 10 15

His Phe Lys Ile Gly Ser Lys His Ser Lys Ile Gly
 20 25

<210> 53
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<400> 53

Glu His Trp Ser Tyr Trp Leu Arg Pro Gly Gly Gly Gly Gly Ser Leu
 1 5 10 15

Leu Phe Ile His Phe Lys Ile Gly Ser Lys His Ser Lys Ile Gly
 20 25 30

<210> 54
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<400> 54

Gly Gly Cys Arg Gly Asp Met Phe Gly Cys Gly Gly Arg Ile Glu Ile
 1 5 10 15

Trp Ile Leu Arg His
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Gly Gly Cys Arg Gly Asp Met Phe Gly Cys Gly Gly Arg Ile Ala Ile
 1 5 10 15

Trp Ile Leu Arg His
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<210> 56
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 1 5 10 15

Ile Trp Ile Leu Arg His
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<210> 57
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<220>
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Gly Gly Cys Gly Arg Gly Asp Ser Pro Gly Cys Gly Gly Arg Ile Ala
 1 5 10 15

Ile Trp Ile Leu Arg His
 20